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8 November 1952

MEMORANDUM FOR THE FILES: Contract RD-27, Task 11

FROM

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SUBJECT

:

Engineering Inspection Report - Transistor Study

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1. A visit was made to the plant of the contractor, [redacted] on 29 October 1952, for the purpose of monitoring the progress on the subject contract. The following persons were present:.

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2. A two stage audio amplifier using junction transistors has been potted into a unit which is approximately 3/4 by 3/4 by 1/4 inches in size. This unit gives an audio output of approximately 20 milliwatts with 40 db. overall gain and with 20 db. of feedback. This unit requires a single power supply voltage of only 9 volts.

3. A concentrated study of the application of the transistor to the mixer function of a receiver has been undertaken with the addition of a new engineer [redacted] Very little work has been done recently on the problem of adapting the transistor to higher power applications. This aspect of the investigation will probably not receive too much attention in the near future in as much as the planning calls for concentrated effort on the application of transistors to the more readily attainable circuit functions such as audio amplifiers, mixers, local oscillators, etc.

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4. Recently, the problem of the stabilization of the transistor characteristics has received considerable attention. This involves special circuit design which reduces the variation in circuit characteristics from one transistor to another, as well as those variations which result from changes in ambient temperature.

5. The problem of providing the contractor with an RS-6 specification was discussed and the contractor agreed that their requirements would be met if the operational characteristics of the RS-6 were prepared separately and submitted to them. This solves the problem of supplying them with a SECRET RS-6 specification.

6. Due to a slow start on the program, the first progress report will cover the months of August, September and October. It was requested that the contractor summarize his activities with respect to our program by listing the progress he has made in adapting the transistor to each circuit function. A detailed report was requested due to the nature of the information which we desire.

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